

## DAFTAR PUSTAKA

- Ahnhan-Winarno, A.D., Cordeiro, L., Winarno, F.G., Gibbons, J., Xiao, H., 2021. Tempeh: A semicentennial review on its health benefits, fermentation, safety, processing, sustainability, and affordability. *Compr Rev Food Sci Food Saf* 20. <https://doi.org/10.1111/1541-4337.12710>
- Alangari, A.A., Almutairi, M.M., Alrrajeh, A.M., Aleidi, M.A., Alqarni, M.A., Almeneif, H.A., Alolaywi, H.K., Almuklass, A.M., 2022. The Relation Between Body Mass Index and Musculoskeletal Injury. *Cureus*. <https://doi.org/10.7759/cureus.28965>
- Andreyani, L., Bhakti, W.K., 2023. Validitas Skala Ukur Nyeri Visual Analog And Numerik Ranting Scales (VANRS) Terhadap Penilaian Nyeri. *Jambura Journal of Health Sciences and Research* 5. <https://doi.org/10.35971/jjhsr.v5i2.19140>
- AOAC, 2012. AOAC International (2012). Official methods of analysis of AOAC International (19th ed.). AOAC Official Methods of Analysis.
- AOAC, 2005. AOAC (2005) Official method of Analysis. 18th Edition, Association of Officiating Analytical Chemists, Washington DC, Method 935.14 and 992.24. AOAC International 11.
- Astawan, M., Wresdiyati, T., Ichsan, M., 2016. Karakteristik Fisikokimia Tepung Tempe Kecambah Kedelai (Physicochemical Characteristics of Germinated Soybean Tempe Flour). *Jurnal Pangan dan Gizi* 11.
- Astawan, M., Wresdiyati, T., Saragih, A.M., 2015. Evaluasi Mutu Protein Tepung Tempe dan Tepung Kedelai Rebus Pada Tikus Percobaan. *Jurnal Mutu Pangan* 2.
- Astawan, M., Wresdiyati, T., Subarna, Rokaesih, Yoshari, R.M., 2020. Functional properties of tempe protein isolates derived from germinated and non-germinated soybeans, in: IOP Conference Series: Earth and Environmental Science. <https://doi.org/10.1088/1755-1315/443/1/012001>
- Bandyopadhyay, A., Chatterjee, P., 2021. Creatinine And Creatine Kinase Ratio In Blood Of Different Body Types - A New Approach. *Stadium - Hungarian Journal of Sport Sciences* 4. <https://doi.org/10.36439/shjs/2021/2/10561>
- Benito, P.J.; Alfaro-Magallanes, V.M.; Rael, B ; Castro, E.A.; Romero-Parra, N ; Rojo-Tirado, M.A.; Peinado, A B, Benito, P.J., Alfaro-Magallanes, V.M., Rael, Beatriz, Castro, E.A., Romero-Parra, Nuria, Rojo-Tirado, M.A., Peinado, Ana B, 2023. Effect of Menstrual Cycle Phase on the Recovery Process of High-Intensity Interval Exercise—A Cross-Sectional Observational Study.

International Journal of Environmental Research and Public Health 2023, Vol. 20, Page 3266 20, 3266. <https://doi.org/10.3390/IJERPH20043266>

- Benito, P.J., Cupeiro, R., Ramos-Campo, D.J., Alcaraz, P.E., Rubio-Arias, J., 2020. A systematic review with meta-analysis of the effect of resistance training on whole-body muscle growth in healthy adult males. *Int J Environ Res Public Health.* <https://doi.org/10.3390/ijerph17041285>
- Brigatto, F.A., de Medeiros Lima, L.E., Germano, M.D., Aoki, M.S., Braz, T. V., Lopes, C.R., 2022. High Resistance-Training Volume Enhances Muscle Thickness in Resistance-Trained Men. *J Strength Cond Res* 36. <https://doi.org/10.1519/JSC.0000000000003413>
- Cahyani, A.P., Maulidyanti, L., Wresdiyati, T., Astawan, M., 2020. Perbandingan karakteristik fisikokimia dan komposisi asam amino tepung tempe larut air dengan isolat protein kedelai komersial. *Jurnal Pangan* 29.
- Campbell, S., Greenwood, M., Prior, S., Shearer, T., Walkem, K., Young, S., Bywaters, D., Walker, K., 2020. Purposive sampling: complex or simple? Research case examples. *Journal of Research in Nursing* 25. <https://doi.org/10.1177/1744987120927206>
- Cintineo, H.P., Arent, M.A., Antonio, J., Arent, S.M., 2018. Effects of Protein Supplementation on Performance and Recovery in Resistance and Endurance Training. *Front Nutr* 5, 400140. <https://doi.org/10.3389/FNUT.2018.00083/BIBTEX>
- Cumming, Kristoffer Toldnes, Reitzner, S.M., Hanslien, M., Skilnand, K., Seynnes, O.R., Horwath, O., Psilander, N., Sundberg, C.J., Raastad, T., Cumming, K Toldnes, 2024. Muscle memory in humans: evidence for myonuclear permanence and long-term transcriptional regulation after strength training Key points. *J Physiol* 602, 4171–4193. <https://doi.org/10.1113/JP285675#support-information-section>
- Davies, R.W., Bass, J.J., Carson, B.P., Norton, C., Kozior, M., Wilkinson, D.J., Brook, M.S., Atherton, P.J., Smith, K., Jakeman, P.M., 2020. The Effect of Whey Protein Supplementation on Myofibrillar Protein Synthesis and Performance Recovery in Resistance-Trained Men. *Nutrients* 2020, Vol. 12, Page 845 12, 845. <https://doi.org/10.3390/NU12030845>
- Davies, R.W., Carson, B.P., Jakeman, P.M., 2018. The effect of whey protein supplementation on the temporal recovery of muscle function following resistance training: A systematic review and meta-analysis. *Nutrients*. <https://doi.org/10.3390/nu10020221>
- Davies, R.W., Lynch, A.E., Kumar, U., Jakeman, P.M., 2024. Characterisation of the Muscle Protein Synthetic Response to Resistance Exercise in Healthy

Adults: A Systematic Review and Exploratory Meta-Analysis. *Transl Sports Med.* <https://doi.org/10.1155/2024/3184356>

De la Torre Canales, G., Câmara-Souza, M.B., Poluha, R.L., de Figueiredo, O.M.C., Nobre, B.B. de S., Ernberg, M., Conti, P.C.R., Rizzatti-Barbosa, C.M., 2022. Long-Term Effects of a Single Application of Botulinum Toxin Type A in Temporomandibular Myofascial Pain Patients: A Controlled Clinical Trial. *Toxins (Basel)* 14. <https://doi.org/10.3390/toxins14110741>

Devkota, A., Gautam, M., Dhakal, U., Devkota, S., Gupta, G.K., Nepal, U., Dhuru, A.D., Singh, A.K., 2024. The Interplay Between Physical Activity, Protein Consumption, and Sleep Quality in Muscle Protein Synthesis.

Draganidis, D., Chondrogianni, N., Chatzinkolaou, A., Terzis, G., Karagounis, L.G., Sovatzidis, A., Avloniti, A., Lefaki, M., Protopapa, M., Deli, C.K., Papanikolaou, K., Jamurtas, A.Z., Fatouros, I.G., 2017. Protein ingestion preserves proteasome activity during intense aseptic inflammation and facilitates skeletal muscle recovery in humans. *Br J Nutr* 118. <https://doi.org/10.1017/S0007114517001829>

FAO, 2024. Protein quality assessment in follow-up formula for young children. FAO, Rome. <https://doi.org/10.4060/cb9177en>

FAO, 2013. Dietary protein quality evaluation in human nutrition: report of an FAO expert consultation, 31 March-2 April, 2011, Auckland, New Zealand, FAO food and nutrition paper.

Gharahdaghi, N., Phillips, B.E., Szewczyk, N.J., Smith, K., Wilkinson, D.J., Atherton, P.J., 2021. Links Between Testosterone, Oestrogen, and the Growth Hormone/Insulin-Like Growth Factor Axis and Resistance Exercise Muscle Adaptations. *Front Physiol.* <https://doi.org/10.3389/fphys.2020.621226>

Golubnitschaja, O., Liskova, A., Koklesova, L., Samec, M., Biringer, K., Büsselberg, D., Podbielska, H., Kunin, A.A., Evseyeva, M.E., Shapira, N., Paul, F., Erb, C., Dietrich, D.E., Felbel, D., Karabatsakis, A., Bubnov, R., Polivka, J., Polivka, J., Birkenbihl, C., Fröhlich, H., Hofmann-Apitius, M., Kubatka, P., 2021. Caution, “normal” BMI: health risks associated with potentially masked individual underweight—EPMA Position Paper 2021. *EPMA Journal* 12. <https://doi.org/10.1007/s13167-021-00251-4>

Gorissen, S.H.M., Crombag, J.J.R., Senden, J.M.G., Waterval, W.A.H., Bierau, J., Verdijk, L.B., van Loon, L.J.C., 2018. Protein content and amino acid composition of commercially available plant-based protein isolates. *Amino Acids* 50. <https://doi.org/10.1007/s00726-018-2640-5>

Hall, J.E., Hall, M.E., 2021. Guyton and Hall Textbook of Medical Physiology 14th Edition, 14th ed, Elsevier, Philadelphia.

- Hansen, M., Bangsbo, J., Jensen, J., Bibby, B.M., Madsen, K., 2015. Effect of whey protein hydrolysate on performance and recovery of top-class orienteering runners. *Int J Sport Nutr Exerc Metab* 25. <https://doi.org/10.1123/ijsnem.2014-0083>
- Haraguchi, F.K., Pedrosa, M.L., Paula, H. de, Santos, R.C. dos, Silva, M.E., 2010. Evaluation of biological and biochemical quality of whey protein. *J Med Food* 13. <https://doi.org/10.1089/jmf.2009.0222>
- Harahap, N.S., 2014. PROTEIN DALAM NUTRISI OLAHRAGA. *Jurnal Ilmu Keolahragaan* 13.
- Hasni, H., Putra, H.L., Nugraheni, N., 2019. Comparison of Acute Level of CK After Five Weeks Eccentric vs Concentric High Intensity Strength Exercise in Healthy Subject. *Surabaya Physical Medicine and Rehabilitation Journal* 1, 38. <https://doi.org/10.20473/spmrj.v1i2.16171>
- Herawati, E.R.N., Febrisiantosa, A., Ningrum, A., Santoso, U., 2024. Physical Characteristics of Tempe Flour as Affected by Pretreatment and Drying Methods. *AIP Conf Proc* 2957. <https://doi.org/10.1063/5.0184072/3262160>
- Hidayat, S., Saputri, W., Astriani, M., 2018. Metodologi Penelitian Biologi. Universitas Muhammadiyah Palembang Press.
- Hodson, N., West, D.W.D., Philp, A., Burd, N.A., Moore, D.R., 2019. Molecular regulation of human skeletal muscle protein synthesis in response to exercise and nutrients: A compass for overcoming age-related anabolic resistance. *Am J Physiol Cell Physiol*. <https://doi.org/10.1152/ajpcell.00209.2019>
- Hoffman, J.R., Ratamess, N.A., Tranchina, C.P., Rashti, S.L., Kang, J., Faigenbaum, A.D., 2010. Effect of a proprietary protein supplement on recovery indices following resistance exercise in strength/power athletes. *Amino Acids* 38. <https://doi.org/10.1007/s00726-009-0283-2>
- Huang, W.C., Chang, Y.C., Chen, Y.M., Hsu, Y.J., Huang, C.C., Kan, N.W., Chen, S.S., 2017. Whey Protein Improves Marathon-Induced Injury and Exercise Performance in Elite Track Runners. *Int J Med Sci* 14, 648. <https://doi.org/10.7150/IJMS.19584>
- Ihsan, F., Kozina, Z., Nasrulloh, A., Arzhan Hidayat, R., 2024. Nutritional Strategies for Rapid Recovery in Sport: A Literature Review, *Retos*.
- Ilham, Selviani, I., Azzahra, F., Teressa, F., Safitri, M., Orhan, B.E., Geantă, V.A., 2024. Response of eccentric exercise, proprioceptive neuromuscular facilitation, and flexibility on delayed onset muscle soreness induced by progressive eccentric training. *Journal of Physical Education and Sport* 24, 2223–2233. <https://doi.org/10.7752/jpes.2024.12322>

- Irmawati, N.E., Indarti, D., Komsiyah, K., Marahayu, M., 2022. Pengaruh Penerapan Rebusan Daun Salam terhadap Kadar Gula Darah pada Penderita Diabetes Mellitus Tipe 2 di Desa Kopek Kecamatan Godong Kabupaten Grobogan. *JIIP - Jurnal Ilmiah Ilmu Pendidikan* 5. <https://doi.org/10.54371/jiip.v5i6.657>
- Isnanta, R., 2024. Analisis Tingkat Kebugaran Fisik Mahasiswa Pendidikan Olahraga Melalui Latihan Weight Training. *Prima Magistra: Jurnal Ilmiah Kependidikan* 5. <https://doi.org/10.37478/jpm.v5i1.3321>
- Jauhari, M., Sulaeman, A., Riyadi, H., Ekayanti, I., 2014a. Pengembangan Formula Minuman Olahraga Berbasis Tempe Untuk Pemulihan Kerusakan Otot (Development of Tempe Based Sports Beverages for Muscles Damage Recovery). *Jurnal Agritech* 34. <https://doi.org/10.22146/agritech.9456>
- Jauhari, M., Sulaeman, A., Riyadi, H., Ekayanti, I., 2014b. Effect of administering Tempeh drink on muscle damage recoveries after resistance exercise in student athletes. *Pakistan Journal of Nutrition* 12. <https://doi.org/10.3923/pjn.2013.924.928>
- Jiaming, Y., Rahimi, M.H., 2021. Creatine supplementation effect on recovery following exercise-induced muscle damage: A systematic review and meta-analysis of randomized controlled trials. *J Food Biochem.* <https://doi.org/10.1111/jfbc.13916>
- Kamei, Y., Hatazawa, Y., Uchitomi, R., Yoshimura, R., Miura, S., 2020. Regulation of skeletal muscle function by amino acids. *Nutrients* 12. <https://doi.org/10.3390/nu12010261>
- Karakuş, M., Akkurt, S., 2020. The effect of use of protein supplements on muscle damage. *Progress in Nutrition* 22. <https://doi.org/10.23751/pn.v22i1-S.9882>
- Kemenkes RI, 2023. Survei Kesehatan Indonesia 2023 Dalam Angka.
- Kemenkes RI, 2014. Peraturan Menteri Kesehatan Republik Indonesia Nomor 41 Tahun 2014, Kemenkes RI.
- Kim, H.-Y., 2014. Statistical notes for clinical researchers: Nonparametric statistical methods: 2. Nonparametric methods for comparing three or more groups and repeated measures. *Restor Dent Endod* 39. <https://doi.org/10.5395/rde.2014.39.4.329>
- Koch, A.J., Pereira, R., Machado, M., 2014. The creatine kinase response to resistance exercise. *Journal of Musculoskeletal Neuronal Interactions* 14.
- Kole, H., Tuapattinaya, P., Watuguly, T., 2020. Analisis kadar karbohidrat dan lemak pada tempe berbahan dasar biji lamun (*Enhalus acoroides*). *BIOPENDIX: Jurnal Biologi, Pendidikan dan Terapan* 6, 91–96.

- Krzysztofik, M., Wilk, M., Wojdała, G., Gołaś, A., 2019. Maximizing muscle hypertrophy: A systematic review of advanced resistance training techniques and methods. *Int J Environ Res Public Health.* <https://doi.org/10.3390/ijerph16244897>
- Kusumaningtiyas, F., Lugas Tari, D.K., Olivia, Z., 2019. Pemberian Tepung Tempe Kecambah Kedelai Terhadap Jumlah Eritrosit dan Kadar Hb pada Tikus Putih (*Rattus norvegicus*) Anemia Giving. Improving the practical application of the Delphi method in group-based judgement: a six-step prescription for a well-founded and defensible process 174.
- Lam, F.C., Khan, T.M., Faidah, H., Haseeb, A., Khan, A.H., 2019. Effectiveness of whey protein supplements on the serum levels of amino acid, creatinine kinase and myoglobin of athletes: A systematic review and meta-analysis. *Syst Rev* 8. <https://doi.org/10.1186/s13643-019-1039-z>
- Lilja, M., Mandić, M., Apró, W., Melin, M., Olsson, K., Rosenborg, S., Gustafsson, T., Lundberg, T.R., 2018. High doses of anti-inflammatory drugs compromise muscle strength and hypertrophic adaptations to resistance training in young adults. *Acta Physiologica* 222. <https://doi.org/10.1111/apha.12948>
- Lopez, P., Radaelli, R., Taaffe, D.R., Newton, R.U., Galvão, D.A., Trajano, G.S., Teodoro, J.L., Kraemer, W.J., Häkkinen, K., Pinto, R.S., 2021. Resistance Training Load Effects on Muscle Hypertrophy and Strength Gain: Systematic Review and Network Meta-analysis. *Med Sci Sports Exerc.* <https://doi.org/10.1249/MSS.0000000000002585>
- Maicas-Pérez, L., Hernández-Lougedo, J., Heredia-Elvar, J.R., Pedauyé-Rueda, B., Cañuelo-Márquez, A.M., Barba-Ruiz, M., Lozano-Estevan, M. del C., García-Fernández, P., Maté-Muñoz, J.L., 2023. Effects of Creatine Supplementation after 20 Minutes of Recovery in a Bench Press Exercise Protocol in Moderately Physically Trained Men. *Nutrients* 15. <https://doi.org/10.3390/nu15030657>
- Mansur, L.K., Irianto, J.P., Mansur, M., 2018. Pengaruh latihan squat menggunakan free weight dan gym machine terhadap kekuatan, power, dan hypertrophy otot. *Jurnal Keolahragaan* 6, 150–161. <https://doi.org/10.21831/jk.v6i2.16516>
- Mardiana, M., Rachmawati, L., Sari, N.P., Amien, T.N. Al, 2022. Whey Protein, Daun Kelor, Kurma, dan Kelelahan Otot. Bookchapter Kesehatan Masyarakat Universitas Negeri Semarang 153–180. <https://doi.org/10.15294/km.v1i2.78>
- Markus, I., Constantini, K., Hoffman, J.R., Bartolomei, S., Gepner, Y., 2021. Exercise-induced muscle damage: mechanism, assessment and nutritional factors to accelerate recovery. *Eur J Appl Physiol.* <https://doi.org/10.1007/s00421-020-04566-4>

- Moore, D.R., 2019. Maximizing Post-exercise Anabolism: The Case for Relative Protein Intakes. *Front Nutr.* <https://doi.org/10.3389/fnut.2019.00147>
- Mor, A., Ipekoglu, G., 2018. The Effect of Whey Protein Supplementation on Exercise-Induced Muscle Damage. *International Journal of Medical Research & Health Sciences* 7, 132–137.
- Mursyid, Astawan, M., Muchtadi, D., Wresdiyati, T., Widowati, S., Bintari, S.H., Suwarno, M., 2014. Evaluasi nilai gizi protein tepung tempe yang terbuat dari varietas kedelai impor dan lokal. *Jurnal Pangan* 23.
- Nasrulloh, A., Prasetyo, Y., Apriyanto, K.D., 2018. Dasar-Dasar Latihan Beban.
- Nasrulloh, A., Wicaksono, I.S., 2020. Latihan bodyweight dengan total-body resistance exercise (TRX) dapat meningkatkan kekuatan otot. *Jurnal Keolahragaan* 8, 52–62. <https://doi.org/10.21831/jk.v8i1.31208>
- Nurfitria, A., Darmawan, F.D., Rohmah, S.A., Rosmayanti, D., Rahmani, A., Lusilawati, Indriani, A., Sayyida, A., Nafisa, Firdaus, M., Muthiatulmillah, S., Fatimatuzzahra, Putri, S., Nurhalimah, S., Hutami, R., Aminah, S., 2024. Karakteristik Sensori dan Kimia Produk Sistik dengan Penambahan Daun Singkong. *Jurnal Agroindustri Terapan Indonesia* 2, 1–13. <https://doi.org/10.31962/jati.v2i1.170>
- Oktarina, M., Rabia, R., Hendrawan, T., 2023. Perbandingan Indeks Masa Otot Skeletal Antara Mahasiswa Fisioterapi Dengan Indeks Masa Tubuh Normal, Overweight Dan Obesitas. *Jurnal Ilmu Kedokteran dan Kesehatan* 10. <https://doi.org/10.33024/jikk.v10i4.9874>
- Pal, C.P., Agarwal, V., Srivastav, R., Gupta, M., Singh, S., 2023. Physiological Adaptations of Skeletal Muscle and Bone to Resistance Training and Its Applications in Orthopedics. *Journal of Bone and Joint Diseases* 38. [https://doi.org/10.4103/jbjd.jbjd\\_9\\_23](https://doi.org/10.4103/jbjd.jbjd_9_23)
- Paoletti, A., Courtney-Martin, G., Elango, R., 2024. Determining amino acid requirements in humans. *Front Nutr.* <https://doi.org/10.3389/fnut.2024.1400719>
- Papadopoulou, S.K., 2020. Rehabilitation nutrition for injury recovery of athletes: The role of macronutrient intake. *Nutrients*. <https://doi.org/10.3390/nu12082449>
- Pasiakos, S.M., Lieberman, H.R., McLellan, T.M., 2014. Effects of protein supplements on muscle damage, soreness and recovery of muscle function and physical performance: A systematic review. *Sports Medicine*. <https://doi.org/10.1007/s40279-013-0137-7>

- Peake, J.M., 2019. Recovery after exercise: what is the current state of play? *Curr Opin Physiol.* <https://doi.org/10.1016/j.cophys.2019.03.007>
- Peake, J.M., Neubauer, O., Gatta, P.A.D., Nosaka, K., 2017. Muscle damage and inflammation during recovery from exercise. *J Appl Physiol.* <https://doi.org/10.1152/japplphysiol.00971.2016>
- Pearson, A.G., Hind, K., Macnaughton, L.S., 2023. The impact of dietary protein supplementation on recovery from resistance exercise-induced muscle damage: A systematic review with meta-analysis. *Eur J Clin Nutr.* <https://doi.org/10.1038/s41430-022-01250-y>
- Pehlivanoğlu, H., Bardakçı, H.F., Yaman, M., 2022. Protein quality assessment of commercial whey protein supplements commonly consumed in Turkey by in vitro protein digestibility-corrected amino acid score (PDCAAS). *Food Science and Technology (Brazil)* 42. <https://doi.org/10.1590/fst.64720>
- Prativi, M.B.N., Astuti, D.I., Putri, S.P., Laviña, W.A., Fukusaki, E., Aditiawati, P., 2023. Metabolite Changes in Indonesian Tempe Production from Raw Soybeans to Over-Fermented Tempe. *Metabolites* 13. <https://doi.org/10.3390/metabo13020300>
- Prayitno, S.S., Sumarmono, J., Rahardjo, A.H.D., Setyawardani, T., 2020. Modifikasi Sifat Fisik Yogurt Susu Kambing dengan Penambahan Microbial Transglutaminase dan Sumber Protein Eksternal. *Jurnal Aplikasi Teknologi Pangan* 9, 77–82. <https://doi.org/10.17728/jatp.6396>
- Purnama, N., Jatmiko, T., 2019. Pengaruh Latihan Deadlift dan Barbell Squat Terhadap Peningkatan Kekuatan Otot Tungkai (Studi Pada Mahasiswa FIO Non Atlet). *Jurnal Prestasi Olahraga* 2.
- Rizzo, G., 2024. Soy-Based Tempeh as a Functional Food: Evidence for Human Health and Future Perspective. *Frontiers in Bioscience - Elite.* <https://doi.org/10.31083/j.fbe1601003>
- Roberts, J., Zinchenko, A., Suckling, C., Smith, L., Johnstone, J., Henselmans, M., 2017. The short-term effect of high versus moderate protein intake on recovery after strength training in resistance-trained individuals. *J Int Soc Sports Nutr* 14. <https://doi.org/10.1186/s12970-017-0201-z>
- Romero-Parra, N., Cupeiro, R., Alfaro-Magallanes, V.M., Rael, B., Rubio-Arias, J., Peinado, A.B., Benito, P.J., 2021. Exercise-Induced Muscle Damage during the Menstrual Cycle: A Systematic Review and Meta-Analysis. *J Strength Cond Res* 35, 549–561. <https://doi.org/10.1519/JSC.0000000000003878>
- Romulo, A., Surya, R., 2021. Tempe: A traditional fermented food of Indonesia and its health benefits. *Int J Gastron Food Sci.* <https://doi.org/10.1016/j.ijgfs.2021.100413>

- Sari, R.S., 2019. Pengaruh Pemberian Whey Protein Terhadap Pengurangan Gejala Kerusakan Otot Setelah Aktivitas Eksentrik. *Sporta Saintika* 4. <https://doi.org/10.24036/sporta.v4i1.97>
- Saryono, 2014. Peran enzim kreatin kinase sebagai marker dalam penyembuhan luka. Prosiding konferensi nasional II PPNI JawaTengah.
- Schiaffino, S., Reggiani, C., Akimoto, T., Blaauw, B., 2021. Molecular Mechanisms of Skeletal Muscle Hypertrophy. *J Neuromuscul Dis.* <https://doi.org/10.3233/JND-200568>
- Schoenfeld, B.J., Grgic, J., Van Every, D.W., Plotkin, D.L., 2021. Loading Recommendations for Muscle Strength, Hypertrophy, and Local Endurance: A Re-Examination of the Repetition Continuum. *Sports* 9. <https://doi.org/10.3390/sports9020032>
- Sofiyanti, S., Goenawan, H., Lesmana, R., Tarawan, V.M., 2022. The AKT Pathway and Satellite Cell Activation in Skeletal Muscle Mass Regulation. *Folia Medica Indonesiana* 58. <https://doi.org/10.20473/fmi.v58i1.13354>
- Solichah, K.M., 2022. Suplementasi Asam Amino Dan Performa Olahraga. Temu Ilmiah Nasional Persagi 4.
- Stark, M., Lukaszuk, J., Prawitz, A., Salacinski, A., 2012. Protein timing and its effects on muscular hypertrophy and strength in individuals engaged in weight-training. *J Int Soc Sports Nutr.* <https://doi.org/10.1186/1550-2783-9-54>
- Suryadi, D., Samodra, Y.T.J., Purnomo, E., 2021. Efektivitas Latihan Weight Training Terhadap Kebugaran Jasmani. *Journal RESPECS* 3. <https://doi.org/10.31949/respecs.v3i2.1029>
- Tambing, A., Engka, J.N.A., Wungouw, H.I.S., 2020. Pengaruh Intensitas Latihan Beban terhadap Massa Otot. *eBinomedik* 8.
- Ten Haaf, D.S.M., Flipsen, M.A., Horstman, A.M.H., Timmerman, H., Steegers, M.A.H., de Groot, L.C.P.G.M., Eijsvogels, T.M.H., Hopman, M.T.E., 2021. The Effect of Protein Supplementation versus Carbohydrate Supplementation on Muscle Damage Markers and Soreness Following a 15-km Road Race: A Double-Blind Randomized Controlled Trial. *Nutrients* 2021, Vol. 13, Page 858 13, 858. <https://doi.org/10.3390/NU13030858>
- Thulesen, L., Duque-Estrada, P., Zhang, L., Martin, M.S., Aaslyng, M.D., Petersen, I.L., 2025. Faba bean tempeh: The effects of fermentation and cooking on protein nutritional quality and sensory quality. *Food Chemistry Advances* 6. <https://doi.org/10.1016/j.focha.2025.100894>

- van den Berg, L.A., Mes, J.J., Mensink, M., Wanders, A.J., 2022. Protein quality of soy and the effect of processing: A quantitative review. *Front Nutr.* <https://doi.org/10.3389/fnut.2022.1004754>
- Walowski, C.O., Braun, W., Maisch, M.J., Jensen, B., Peine, S., Norman, K., Müller, M.J., Bosy-Westphal, A., 2020. Reference values for skeletal muscle mass – current concepts and methodological considerations. *Nutrients.* <https://doi.org/10.3390/nu12030755>
- Watanabe, L.M., de Souza Pinhel, M.A., Noronha, N.Y., Nonino, C.B., 2022. Creatine Kinase as a Biomarker, in: Patel, V.B., Preedy, V.R. (Eds.), *Biomarkers in Nutrition*. Springer Cham, pp. 1–23. [https://doi.org/10.1007/978-3-030-81304-8\\_55-1](https://doi.org/10.1007/978-3-030-81304-8_55-1)
- Wati, I.D.P., Rejeki, H.S., 2021. Latihan Dosis Maksimal Dengan Metode Sirkuit Terhadap Hypertrophy Otot Betis. *Tadulako Journal Sport Sciences And Physical Education* 9.
- West, D.W.D., Sawan, S.A., Mazzulla, M., Williamson, E., Moore, D.R., 2017. Whey Protein Supplementation Enhances Whole Body Protein Metabolism and Performance Recovery after Resistance Exercise: A Double-Blind Crossover Study. *Nutrients* 2017, Vol. 9, Page 735 9, 735. <https://doi.org/10.3390/NU9070735>
- Widiany, F.L., Metty, M., Widaryanti, R., Azizah, S.N., 2023. Kandungan Asam Amino Tempe Kedelai Lokal Indonesia dan Tempe Kedelai Impor. ARGIPA (Arsip Gizi dan Pangan) 8, 162–168. <https://doi.org/10.22236/argipa.v8i2.11913>
- Wolfe, R.R., Church, D.D., Ferrando, A.A., Moughan, P.J., 2024. Consideration of the role of protein quality in determining dietary protein recommendations. *Front Nutr.* <https://doi.org/10.3389/fnut.2024.1389664>
- Xu, M., Hu, D., Liu, X., Li, Z., Lu, L., 2025. Branched-Chain Amino Acids and Inflammation Management in Endurance Sports: Molecular Mechanisms and Practical Implications. *Nutrients* . <https://doi.org/10.3390/nu17081335>
- Yanti, R., Angkasa, D., Jus'at, I., 2021. Pengembangan Produk Snack Bar Tinggi Bcaa [Branched-Chain Amino Acids] Berbahan Tepung Kapri [Pisum Sativum], Kecipir [Psophocarpus Tetragonolobus] Dan Kedelai [Glycine Max] Sebagai Makanan Alternatif Untuk Daya Tahan Atlet. *Penelitian Gizi dan Makanan (The Journal of Nutrition and Food Research)* 44, 21–30. <https://doi.org/10.22435/PGM.V44I1.3968>
- Ye, J., Zhai, X., Yang, J., Zhu, Z., 2021. Association between Serum Testosterone Levels and Body Composition among Men 20-59 Years of Age. *Int J Endocrinol* 2021. <https://doi.org/10.1155/2021/7523996>

- Yoshari, R.M., Astawan, M., Prangdimurti, E., Wresdiyati, T., 2023. The production process of tempe protein isolate from germinated soybeans and its potential as an antidiabetic. *Food Res* 7, 71–79. [https://doi.org/10.26656/fr.2017.7\(S1\).23](https://doi.org/10.26656/fr.2017.7(S1).23)
- Yuniarti, T., Prayudi, A., Supenti, L., Suhrawardan, H., Martosuyono, P., 2021. Produksi dan Profil Kimia Hidrolisat Protein dari Hasil Samping Pengolahan Udang Segar. *Jurnal Perikanan Universitas Gadjah Mada* 23. <https://doi.org/10.22146/jfs.59906>
- Zabor, E.C., Kaizer, A.M., Hobbs, B.P., 2020. Randomized Controlled Trials. *Chest*. <https://doi.org/10.1016/j.chest.2020.03.013>